

STENT DELIVERY SYSTEM

ABSTRACT OF THE DISCLOSURE

A stent delivery system is disclosed which includes an inner tube disposed
5 within an outer tube in an annular space disposed therebetween. The distal end of the
inner tube extends beyond the distal end of the outer tube and a balloon extends
between the distal end of the outer tube and the distal end of the inner tube. A stent is
disposed over the balloon. A heating mechanism is provided to heat the balloon
which, in turn, transmits heat to the stent for expansion. An inflation media for the
10 balloon is transported through the annular space to ensure continuous contact between
the balloon and stent during deployment of the stent.